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Tummala, R.R.; Swaminathan, M.; Tentzeris, M.M.; Laskar, J.; Gee-Kung Chang; Sitaraman, S.; Keezer, D.; Guidotti, D.; Zhaoran Huang; Kyutae Lim; Lixi Wan; Bhattacharya, S.K.; Sundaram, V.; Fuhan Liu; Raj, P.M.;

Advanced Packaging, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part B: Advanced Packaging, IEEE Transactions on] Volume 27, Issue 2, May 2004 Page(s):250 - 267 Digital Object Identifier 10.1109/TADVP.2004.830353

AbstractPlus | References | Full Text: PDF(1536 KB) | REEE JNL

2. The Ocean Drilling Program IV: Deep water coring technology-Past, present, and future 

Huey, D.; Storms, M.;

**OCEANS** 

Volume 17, Nov 1985 Page(s):146 - 159

AbstractPlus | Full Text: PDF(1096 KB) IEEE CNF

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2004. (INZZ) High nitrogen alloyed steels for nonmagnetic **drill** collars. Standard steel grades and latest developments.

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2004. (INZZ) Techniques to characterize fatigue behaviour of full size drill pipes and small scale samples.

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8130357, A2004-22-8140N-044; 20041010.

Title

Techniques to characterize **fatigue** behaviour of full size **drill** pipes and small scale samples.

Author(s)

<u>Miscow-G-F</u>; <u>de-Miranda-P-E-V</u>; <u>Netto-T-A</u>; <u>Placido-J-C-R</u>.

**Author affiliation** 

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International-Journal-of-Fatigue (UK), vol.26, no.6, p.575-84, 2004., Published: Elsevier.

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ISSN: 0142-1123, CCCC: 0142-1123/04/ (\$30.00).

Availability

SICI: 0142-1123(2004)26:6L.575:TCFB; 1-Z.

**Publication year** 

2004.

Language

EN.

**Publication type** 

J Journal Paper.

Treatment codes

X Experimental.

**Abstract** 

**Drill pipe fatigue** damage occurs under cyclic loading conditions due to, for instance, rotation in curved sections of an oil **well**. Failures caused by crack nucleation and propagation are one of the highest risks to the structural integrity of these pipes. Usually, failure mechanisms develop in the transition region of the tool joint. A **fatigue** simulator was designed and built to test full-scale **drill** pipes under rotating cyclic bending and constant tension loading. Additionally, the fundamental **fatigue** mechanisms were investigated via laboratory tests in small-scale samples. These tests were conducted in an opto-mechanical **fatigue** apparatus that was designed to perform in-situ real time monitoring surface analysis during the experiments, by using differential interference contrast (DIC). Scanning electron microscopy fractography of fatigued samples was also performed. The **fatigue-life** curve was obtained for the **drill pipe** API S-135 grade steel from small scale tests. The full size **drill pipe** test results are coherent with the expected, validating

the experimental procedures. (26 refs).

#### **Descriptors**

bending; failure-mechanical; fatigue-cracks; fractography; scanning-electron-microscopy; steel.

#### **Keywords**

fatigue behaviour; drill pipes; drill pipe fatigue damage; failure mechanism; crack nucleation; crack propagation; fatigue simulator; rotating cyclic bending; tension loading; opto mechanical fatigue apparatus; in situ real time monitoring surface analysis; differential interference contrast; Scanning electron microscopy fractography; fatigue life curve; API S 135 grade steel.

#### **Classification codes**

A8140N	(Fatigue, embrittlement, and fracture).
A8140L	(Deformation, plasticity and creep).
A6220F	(Deformation and plasticity).
A6220M	(Fatigue, brittleness, fracture, and cracks).
A8170	(Materials testing).

#### **Chemical indexing**

Fe ss, C ss.

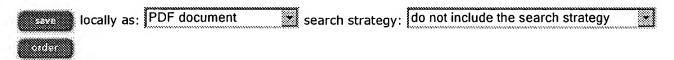
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Microcomputer technology for drilling Henry D. Shapiro, B. V. Randall

October 1986 Proceedings of the 1986 workshop on Applied computing

Full text available: pdf(824.77 KB) Additional Information: full citation, abstract, references, index terms

Drilling costs are a significant portion of exploration and production budgets. For this reason, the use of complex mathematical models to optimize drilling operations began in the early 1950s, at roughly the same time as the introduction of the first commercially available digital computer. Twenty years of development and field testing resulted in the release of sophisticated drilling optimization programs to the oil industry in 1971. Despite being tied to large mainframe computers, by 197 ...

Risks to the public: Risks to the public in computers and related systems Peter G. Neumann

May 2002 ACM SIGSOFT Software Engineering Notes, Volume 27 Issue 3

Full text available: ndf(1.92 MB) Additional Information: full citation

Special section: Reasoning about structure, behavior and function
 B. Chandrasekaran, Rob Milne
 July 1985 ACM SIGART Bulletin, Issue 93

Full text available: add(5.13 MB) Additional Information: full citation, abstract, references

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

Session N1: Future trends in oil and gas visualization Francine Evans, William Volz, Geoffrey Dorn, Bernd Fröhlich, David M Roberts October 2002 Proceedings of the conference on Visualization '02

Full text available: pdf(35.45 KB) Additional Information: full citation, abstract

The question that this panel wishes to explore is: What are the future visualization trends and requirements for the oil and gas industry to efficiently handle and explore the ever-

increasing volume and variety of available data?It has been proven many times that 3D visualization helps to reduce the risk in the search for, and development of, oil and gas resources and has been generally acknowledged to be an indispensable technology for the oil and gas industry. The role of the geoscientist is t ...

5 Fast detection of communication patterns in distributed executions



Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(4.21 M8)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 Data security and protection: Rights protection for relational data



Radu Sion, Mikhail Atallah, Sunil Prabhakar

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Full text available: pdf(229.76 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Protecting rights over relational data is of ever increasing interest, especially considering areas where sensitive, valuable content is to be outsourced. A good example is a data mining application, where data is sold in pieces to parties specialized in mining it.Different avenues for rights protection are available, each with its own advantages and drawbacks. Enforcement by legal means is usually ineffective in preventing theft of copyrighted works, unless augmented by a digital counter ...

7 Distributed operating systems



Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 4

Full text available: pdf(5.49 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

8 A computer science perspective of bridge design



Alfred Spector, David Gifford

April 1986 Communications of the ACM, Volume 29 Issue 4

Full text available: pdf(3.51 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

What kinds of lessons does a classical engineering discipline like bridge design have for an emerging engineering discipline like computer systems design? Case-study editors Alfred Spector and David Gifford consider the insight and experience of bridge designer Gerard Fox to find out how strong the parallels are.

9 Operating system benchmarking in the wake of Imbench: a case study of the

performance of NetBSD on the Intel x86 architecture
---

Aaron B. Brown, Margo I. Seltzer

June 1997 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems, Volume 25 Issue 1

Full text available: 📆 pdf(1.98 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The *Imbench* suite of operating system microbenchmarks provides a set of portable programs for use in cross-platform comparisons. We have augmented the *Imbench* suite to increase its flexibility and precision, and to improve its methodological and statistical operation. This enables the detailed study of interactions between the operating system and the hardware architecture. We describe modifications to *Imbench*, and then use our new benchmark suite, *hbench:OS*, to exami ...

10 Interactive system for controlled vocabulary maintenance Dave W. Wattenbarger, John A. Bailey, Samuel J. Martinez January 1977 Proceedings of the 1977 annual conference

Full text available: pdf(603,39 KB) Additional Information: full citation, abstract, references, index terms

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Distributed shared memory in a loosely coupled distributed system.
B. D. Fleisch

August 1987 ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology, Volume 17 Issue 5

Full text available: pdf(1.32 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> ierms

This work outlines the development and performance validation of an architecture for distributed shared memory in a loosely coupled distributed computing environment. This distributed shared memory may be used for communication and data exchange between communicants on different computing sites; the mechanism will operate transparently and in a distributed manner. This paper describes the architecture of this mechanism and metrics which will be used to measure its performan ...

12 An architecture for pup services on a distributed operating system
Brett D. Fleisch

January 1981 ACM SIGOPS Operating Systems Review, Volume 15 Issue 1

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At the University of Rochester the computer science department has had six years of experience in the design and implementation of a multiple-machine, multiple network distributed system called RIG. Rochester's Intelligent Gateway (RIG) [1,2,3] is a dual processor gateway which connects three computer networks to provide convenient access to a wide range of computer facilities. RIG was built to serve as an intermediary between the human user (working through a display terminal or personal comput ...

13 Workshop on compositional software architectures: workshop report May 1998 ACM SIGSOFT Software Engineering Notes, Volume 23 Issue 3

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18	Local Microcode Compaction David Landskov, Scott Davidson,		
18	Local Microcode Compaction David Landskov, Scott Davidson,	<u>Techniques</u> , Bruce Shriver, Patrick W. Mallett	
	Local Microcode Compaction David Landskov, Scott Davidson, September 1980 ACM Computing Full text available: pdf(2.83 MB)  Application-specific microelect P. Windirsch, HJ. Herpel, A. Lau November 1992 Proceedings of	Techniques , Bruce Shriver, Patrick W. Mallett g Surveys (CSUR), Volume 12 Issue 3 Additional Information: full citation, references, citings, index terms  tronics for mechatronic systems udenbach, M. Glesner the conference on European design automation	
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19	Local Microcode Compaction David Landskov, Scott Davidson, September 1980 ACM Computing Full text available: pdf(2.83 MB)  Application-specific microelect P. Windirsch, HJ. Herpel, A. Lau November 1992 Proceedings of Full text available: pdf(662.21 KB)  Virtual terminal management if Keith A. Lantz, Richard F. Rashid	Techniques , Bruce Shriver, Patrick W. Mallett g Surveys (CSUR), Volume 12 Issue 3  Additional Information: full citation, references, citings, index terms  tronics for mechatronic systems udenbach, M. Glesner the conference on European design automation  Additional Information: full citation, references, citings, index terms  in a multiple process environment	

Rochester's Intelligent Gateway provides its users with the facilities for communicating simultaneously with a large number of processes spread out among various computer systems. We have adopted the philosophy that the user should be able to manage any number of concurrent tasks or jobs, viewing their output on his display device as he desires. To achieve this goal the Virtual Terminal Management System (VTMS) converts a single physical terminal into multiple virtual terminals

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2.	Non-linear control of torsional and bending vibrations of oilwell drillstrings  Journal of Sound and Vibration, Volume 265, Issue 2, 7 August 2003, Pages 402  S. A. Al-Hiddabi, B. Samanta and A. Seibi  Abstract		
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4.	Stress concentration incorporated fatigue analysis of die-marked drill pipes International Journal of Fatigue, Volume 21, Issue 8, September 1999, Pages 75 M. K. Rahman, M. M. Hossain and S. S. Rahman Abstract		
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Received 23 October 1998; accepted 9 November 1998. Available online 25 October 1999.

# Abstract

\*Drill pipes\* under operational loads may fail in static or \*fatigue\* mode. Static failures are evaluated at two critical levels: the rotary table level (surface level) and the dogleg level, whereas fatigue failure occurs in a pipe section at the dogleg level due to the cumulative effect of \*fatigue > damage in a number of drilling events. The current practice of static and \*fatigue failure analyses is based on a smooth pipe surface condition. In practice, however, dies of gripping systems mark the pipe surface during making and breaking operations (screwed and unscrewed to connect and disconnect two pipes). These marks on the pipe surface cause stress concentrations, which make a pipe more susceptible to both failure modes. This paper presents an integrated approach for static and \*fatigue\* failure analysis, considering the effects of stress concentrations due to die-marks from different gripping systems. Thus, the approach is intended to assist engineers in assessing the overall survivability of drill pipes through a detailed failure evaluation considering the effect of die-mark related stress concentrations in representative field conditions.

Author Keywords: «Drill pipe»; Die-marks; Stress concentrations; Static failure; «Fatigue» failure

<sup>\*</sup>Corresponding author. Tel.: 0061 2 9385 5936; fax: 0061 2 9385 5182; e-mail: mk.rahman@unsw.edu.au

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8 docum	nents found for: (drillstring or drill string) and	fatigue Set up Alert About	
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<b>1</b> .	T H Hill and Paradigm Partner to Offer M. PR Newswire. New York: Sep 13, 2004. p.		nization_
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<u> </u>	Grant Prideco, RTI Energy Systems & To <u>Titanium Drill Pipe</u> PR Newswire. New York: Oct 11, 1999. p.	-	orld's First Commercial Application of
	Full text	<sup>™</sup> Abstract	
<b>3</b> .	Model predicts drill pipe fatigue in horizo Wu, Jiang. Oil & Gas Journal. Tulsa: Feb 3	ontal wells 3, 1997. Vol. 95, Iss. 5; p. 47 (5 pages	s)
	Page Image - PDF	Abstract	
4.	Improving operational procedures can re Payne, Michael L, Leturno, Richard E, Hard pages)		a: Nov 28, 1994. Vol. 92, Iss. 48; p. 68 (7
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<b>5</b> .	Drillstring vibration measurements detect Rappold, Keith. Oil & Gas Journal. Tulsa: I	<u>t bit stick-slìp</u> Mar 1, 1993. Vol. 91, Iss. 9; p. 66 (5 p	ages)
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6.	<u>Drilling dynamics - 1: Drilling optimized v</u> Rappold, Keith. Oil & Gas Journal. Tulsa: I	with surface measurement of down eb 15, 1993. Vol. 91, Iss. 7; p. 58 (4	hole vibrations pages)
	Full text	ge Image - PDF   Abstract	
7.	Drill Pipe Management Extends Drillstrin Shepard, Jeff S Oil & Gas Journal. Tulsa:		(5 pages)
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# **WEST Search History**

Hide Items Restore Clear Cancel

DATE: Wednesday, September 28, 2005

Hide?	<u>Set Nam</u>	<u>e Query</u>	Hit Count
	DB=PC	GPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ	
	L6	L5 and (pipe with fatigue)	25
	L5	((drill and (rig or bit or pipe)) same fatigue) and wellbore	65
	L4	L3 and ((drillstring? or drill string?) same fatigue)	13
	L3	L2 and (well or wellbore)	98
	L2	(drillstring? or drill string?) and fatigue	100
	L1	hill.in. and (drill string? or drillstring?)	2

END OF SEARCH HISTORY

## **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

**Search Results** - Record(s) 1 through 2 of 2 returned.

1. Document ID: US 20040221985 A1

Using default format because multiple data bases are involved.

L1: Entry 1 of 2

File: PGPB

Nov 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040221985

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040221985 A1

TITLE: Drill string design methodology for mitigating fatigue failure

PUBLICATION-DATE: November 11, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Hill, Tom H. Houston ΤX US Ellis, Sean E. Houston US Reynolds, Nicholas M. Houston TX US Zheng, Nanjiu Sugar Land TX US

US-CL-CURRENT: <u>166/250.01</u>

	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawi Desc	Image
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2. Document ID: US 4965937 A

L1: Entry 2 of 2 File: USPT Oct 30, 1990

US-PAT-NO: 4965937

DOCUMENT-IDENTIFIER: US 4965937 A

TITLE: Tool joint gauge

DATE-ISSUED: October 30, 1990

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hill; Tom H. Houston TX 77070

US-CL-CURRENT: 33/199R; 33/795, 33/829

## Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 13 of 13 returned.

1. Document ID: US 20050067168 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 13

File: PGPB

Mar 31, 2005

PGPUB-DOCUMENT-NUMBER: 20050067168

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050067168 A1

TITLE: Method and apparatus for controlling the ascent and descent of pipe in a well bore

PUBLICATION-DATE: March 31, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Baird, Jeffery D.

Breckenridge

TX

US

KOTE-41

US-CL-CURRENT: 166/380; 166/382

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw Desc | Image |

2. Document ID: US 20040221985 A1

L4: Entry 2 of 13

File: PGPB

Nov 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040221985

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040221985 A1

TITLE: Drill string design methodology for mitigating fatigue failure

PUBLICATION-DATE: November 11, 2004

INVENTOR-INFORMATION:

CITY COUNTRY RULE-47 NAME STATE Hill, Tom H. TXUS Houston Ellis, Sean E. Houston ΤX US Reynolds, Nicholas M. US Houston TΧ Zheng, Nanjiu Sugar Land TX US

US-CL-CURRENT: 166/250.01

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw Desc Image

3. Document ID: US 20040025595 A1

L4: Entry 3 of 13 File: PGPB Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040025595

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040025595 A1

TITLE: Method and apparatus for monitoring structural fatigue and use

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Brennan, Feargal Peter London GB

US-CL-CURRENT: <u>73/787</u>

Full Title Citation	Front   Review	Classification Date	e Reference	Sequences	Attachments   Claims	KWC Draw Desc	Image

4. Document ID: US 20020170792 A1

L4: Entry 4 of 13 File: PGPB Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020170792

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020170792 A1

TITLE: Cable stay damper band and method of use for reduction of fluid induced cable vibrations

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Phelan, R. Scott Lubbock TXUS Sarkar, Partha P. Ames US TΑ Mehta, Kishor C. Lubbock TXUS Gardner, Thomas B. Baltimore MD US Zhao, Zhongshan Katy TXUS

US-CL-CURRENT: 188/378

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMIC	Draw Desc	In
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5. Document ID: US 6928881 B2

L4: Entry 5 of 13 File: USPT Aug 16, 2005

US-PAT-NO: 6928881

Record List Display Page 3 of 7

DOCUMENT-IDENTIFIER: US 6928881 B2

TITLE: Method and apparatus for monitoring structural fatigue and use

DATE-ISSUED: August 16, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Brennan; Feargal Peter London GB

US-CL-CURRENT: <u>73/766</u>; <u>73/786</u>

Full		Title	Citation	Front	Review	Classification	Date	Reference		Claims	KWIC	Drawi Desc	Image
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6. Document ID: US 6705440 B2

L4: Entry 6 of 13 File: USPT Mar 16, 2004

US-PAT-NO: 6705440

DOCUMENT-IDENTIFIER: US 6705440 B2

TITLE: Cable stay damper band and method of use for reduction of fluid induced cable vibrations

DATE-ISSUED: March 16, 2004

INVENTOR-INFORMATION:

NAME CITY ZIP CODE STATE COUNTRY Phelan; R. Scott Lubbock ΤX Sarkar; Partha P. Ames ΙA Mehta; Kishor C. Lubbock ТX Gardner; Thomas B. Baltimore MD Zhao; Zongshan Katy TX

US-CL-CURRENT: 188/378; 174/42, 188/267.1, 188/268, 188/381, 267/136

CFull Title Citation Front Review	Classification   Date	Reference 🚃		Claims 🖟	KNMC -	Drave Desc	Image
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7. Document ID: US 6386526 B1

L4: Entry 7 of 13 File: USPT May 14, 2002

US-PAT-NO: 6386526

DOCUMENT-IDENTIFIER: US 6386526 B1

\*\* See image for <u>Certificate of Correction</u> \*\*

TITLE: Cable stay aerodynamic damper band and method of use

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sarkar; Partha P. Ames IA
Phelan; R. Scott Lubbock TX
Mehta; Kishor C. Lubbock TX
Gardner; Thomas B. Lubbock TX
Zhao; Zhongshan Lubbock TX

US-CL-CURRENT: 267/136; 174/40R, 174/42, 267/140.3, 267/153

Full Title Citation Front Review Classification Date Reference

8. Document ID: US 5973317 A

L4: Entry 8 of 13

File: USPT

Oct 26, 1999

US-PAT-NO: 5973317

DOCUMENT-IDENTIFIER: US 5973317 A

\*\* See image for <u>Certificate of Correction</u> \*\*

TITLE: Washer having fiber optic Bragg Grating sensors for sensing a shoulder load between

components in a drill string

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hay; Arthur D. Cheshire CT

US-CL-CURRENT: <u>250/227.14</u>; <u>250/227.18</u>, <u>250/227.19</u>, <u>250/227.23</u>, <u>356/478</u>, <u>385/12</u>, <u>73/800</u>

' D 9. Document ID: US 4691791 A

L4: Entry 9 of 13 File: USPT Sep 8, 1987

US-PAT-NO: 4691791

DOCUMENT-IDENTIFIER: US 4691791 A

TITLE: Knurled drill stem

DATE-ISSUED: September 8, 1987

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Fillet; Pierre R. Paris FR

US-CL-CURRENT: <u>175/320</u>; <u>285/123.5</u>, <u>403/369</u>

10. Document ID: US 4337088 A

L4: Entry 10 of 13

File: USPT

Full Title Citation Front Review Classification Date Reference Claims MMC Draw Desc Image

Jun 29, 1982

US-PAT-NO: 4337088

DOCUMENT-IDENTIFIER: US 4337088 A

TITLE: Non-magnetic stabilizer

DATE-ISSUED: June 29, 1982

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Moses, Jr.; Edward L. Houston TX 77056

US-CL-CURRENT: 420/44; 420/47

Full? Title" Citation Front Review Classification Date Reference Claims KMC Draw. Desc. Image

11. Document ID: US RE29166 E

L4: Entry 11 of 13 File: USPT

Mar 29, 1977

US-PAT-NO: RE29166

DOCUMENT-IDENTIFIER: US RE29166 E

TITLE: Magnetic flaw detector system for reciprocating pairs of leakage field detectors with

means for adjusting the spacing between each pair of detectors

DATE-ISSUED: March 29, 1977

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Forster; Friedrich M. O. D-7410 Reutlingen 1 DT

US-CL-CURRENT: <u>324/205</u>; <u>324/241</u>

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Claims | KMC | Draw Desc | Image |

12. Document ID: US 4007797 A

L4: Entry 12 of 13

File: USPT

Feb 15, 1977

US-PAT-NO: 4007797

DOCUMENT-IDENTIFIER: US 4007797 A

TITLE: Device for drilling a hole in the side wall of a bore hole

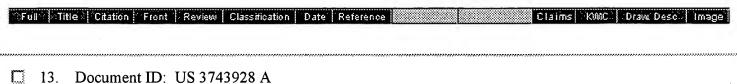
DATE-ISSUED: February 15, 1977

INVENTOR-INFORMATION:

ZIP CODE NAME CITY STATE COUNTRY

Jeter; John D. Iowa Park

US-CL-CURRENT: 175/26; 173/149, 175/61, 175/81



ΤX

L4: Entry 13 of 13

File: USPT

Jul 3, 1973

US-PAT-NO: 3743928

DOCUMENT-IDENTIFIER: US 3743928 A

TITLE: MAGNETIC FLAW DETECTOR SYSTEM FOR RECIPROCATING PAIRS OF LEAKAGE FIELD DETECTORS WITH

MEANS FOR ADJUSTING THE SPACING BETWEEN EACH PAIR OF DETECTORS

DATE-ISSUED: July 3, 1973

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

D-741 Reutlingen Forster; Friedrich M. O. DT

US-CL-CURRENT: 324/235

Term	Documents
DRILL	77669
DRILLS	16679
FATIGUE	79690
FATIGUES	1008
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DRILLSTRINGS	69
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Full Title Citation Front Review Classification Date Reference

## Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

**Search Results -** Record(s) 1 through 20 of 25 returned.

1. Document ID: US 20050126826 A1

Using default format because multiple data bases are involved.

L6: Entry 1 of 25

File: PGPB

Jun 16, 2005

PGPUB-DOCUMENT-NUMBER: 20050126826

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050126826 A1

TITLE: Directional casing and liner drilling with mud motor

PUBLICATION-DATE: June 16, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Moriarty, Keith Alan Houston TX US

Johnson, Michael Robert Sugar Land TX US

US-CL-CURRENT: <u>175</u>/61; 175/107, 175/73

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw Desc Image

2. Document ID: US 20040221985 A1

L6: Entry 2 of 25 File: PGPB Nov 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040221985

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040221985 A1

TITLE: Drill string design methodology for mitigating fatigue failure

PUBLICATION-DATE: November 11, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Hill, Tom H. Houston TX US Ellis, Sean E. Houston TX US Reynolds, Nicholas M. Houston TXUS Zheng, Nanjiu Sugar Land TX US

US-CL-CURRENT: <u>166/250.01</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

3. Document ID: US 20040104821 A1

L6: Entry 3 of 25

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040104821

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040104821 A1

TITLE: RETRIEVABLE SUBSURFACE NUCLEAR LOGGING SYSTEM

PUBLICATION-DATE: June 3, 2004

INVENTOR-INFORMATION:

NAME CIT

CITY STATE COUNTRY RULE-47

CLARK, BRIAN SUGAR LAND TX US

US-CL-CURRENT: 340/854.6

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

4. Document ID: US 20040099420 A1

L6: Entry 4 of 25 File: PGPB May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040099420

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040099420 A1

TITLE: Subsea connection apparatus for a surface blowout preventer stack

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Kotrla, Johnnie E. Katy TX US Johnson, Joe S. Houston TX US

US-CL-CURRENT: 166/345; 166/360, 166/368

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw Desc | Image

5. Document ID: US 20040065475 A1

L6: Entry 5 of 25 File: PGPB Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040065475

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040065475 A1

TITLE: Method and apparatus for riserless drilling

PUBLICATION-DATE: April 8, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Laursen, Patrick Emmett Sugar Land TX US Mungall, John Christian Hartley Houston TX US

US-CL-CURRENT: <u>175/7</u>; <u>166/358</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw, Desc.	Image

6. Document ID: US 20030141872 A1

L6: Entry 6 of 25 File: PGPB Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030141872

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030141872 A1

TITLE: Methods for sealing openings in tubulars

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Clark, Brian	Sugar Land	TX	US	
Hunka, John	Sugar Land	TX	US	
Frey, Mark T.	Sugar Land	TX	US	
Smith, David L.	Stafford	TX	US	
Ramaswamy, Dhananjay	Stafford	TX	US	
Collins, Anthony	Houston	ΥX	US	
Bonner, Stephen	Sugar Landq	TX	us	

US-CL-CURRENT: 324/339; 340/854.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMIC	Drawi Desc 1
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7. Document ID: US 20030137429 A1

L6: Entry 7 of 25 File: PGPB Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030137429

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030137429 A1

TITLE: Downhole tubular with openings for signal passage

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Clark, Brian	Sugar Land	TX	US	
Hunka, John	Sugar Land	TX	US	
Frey, Mark T.	Sugar Land	TX	US	
Smith, David L.	Stafford	TX	US	
Ramaswamy, Dhananjay	Stafford	TX	US	
Collins, Anthony	Houston	TX	US	
Bonner, Stephen	Sugar Land	TX	US	

US-CL-CURRENT: 340/854.5; 340/854.6

Full Title Citation	Front Re	view (	Classification	Date	Reference	Sequences	Attachments	Claims	KVAAC	Draw Desc	Image

8. Document ID: US 20030137302 A1

L6: Entry 8 of 25

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030137302

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030137302 A1

TITLE: Inductively-coupled system for receiving a run-in tool

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Clark, Brian	Sugar Land	TX	US	
Hunka, John	Sugar Land	TX	US	
Frey, Mark T.	Sugar Land	TX	US	
Smith, David L.	Stafford	ТX	US	
Ramaswamy, Dhananjay	Stafford	TX	US	
Collins, Anthony	Houston	ТX	US	
Bonner, Stephen	Sugar Land	TX	US	

US-CL-CURRENT: 324/339; 340/854.6

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc	Image	Draw Desc	KMIC	Claims	Attachments	Sequences	Reference	Date	Classification	Review	Front	Citation	Title	Full

9. Document ID: US 20030127252 A1

L6: Entry 9 of 25 File: PGPB Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030127252 PGPUB-FILING-TYPE: new-utility

DOCUMENT-IDENTIFIER: US 20030127252 A1

TITLE: Motor Driven Hybrid Rotary Steerable System

Record List Display Page 5 of 10

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Downton , Geoff Minchinhampton TX GB
Hart , Steven James Bath GB
Rowatt , John David Richmond US

US-CL-CURRENT: 175/73; 175/76

Full Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments Claims	KOMC	Drawi Desc   Image

10. Document ID: US 20030056984 A1

L6: Entry 10 of 25 File: PGPB Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030056984 PGPUB-FILING-TYPE: new-utility

DOCUMENT-IDENTIFIER: US 20030056984 A1

TITLE: LOGGING WHILE TRIPPING WITH A MODIFIED TUBULAR

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Smith , David L. Stafford TX US Frey , Mark T. Sugar Land TX US

US-CL-CURRENT: <u>175/40</u>; <u>166/250.01</u>, <u>166/381</u>, <u>166/66</u>

Full Title Citation Front Review	Classification   Date	Reference	Sequences	Attachments Claims	KMC   Draw Desc   Image
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11. Document ID: US 20020057210 A1

L6: Entry 11 of 25 File: PGPB May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020057210

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020057210 A1

TITLE: Modified tubular equipped with a tilted or transverse magnetic dipole for downhole

logging

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Frey, Mark T. Sugar Land TX US Omeragic, Dzevat Sugar Land TX US

Tabanou, Jacques R.

Houston

ΤX

US

US-CL-CURRENT: 340/854.3; 340/854.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments Claims	KMC	Drawi Desc	Image

12. Document ID: US 6903660 B2

L6: Entry 12 of 25

File: USPT

Jun 7, 2005

US-PAT-NO: 6903660

DOCUMENT-IDENTIFIER: US 6903660 B2

TITLE: Inductively-coupled system for receiving a run-in tool

DATE-ISSUED: June 7, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Clark; Brian Sugar Land TXHunka; John Sugar Land TX Frey; Mark T. Sugar Land TXSmith; David L. Stafford TX Stafford Ramaswamy; Dhananjay TX Collins; Anthony Houston TXBonner; Stephen Sugar Land TX

US-CL-CURRENT: 340/854.8; 166/381, 324/333, 324/339, 340/854.6

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KWIC	Draw Desc	Image
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13. Document ID: US 6885308 B2

L6: Entry 13 of 25 File: USPT Apr 26, 2005

US-PAT-NO: 6885308

DOCUMENT-IDENTIFIER: US 6885308 B2

TITLE: Logging while tripping with a modified tubular

DATE-ISSUED: April 26, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Smith; David L. Stafford TX Frey; Mark T. Sugar Land TX

US-CL-CURRENT: 340/854.6; 324/339, 324/369, 340/853.2, 340/854.4

14. Document ID: US 6836218 B2

L6: Entry 14 of 25

File: USPT

Dec 28, 2004

US-PAT-NO: 6836218

DOCUMENT-IDENTIFIER: US 6836218 B2

TITLE: Modified tubular equipped with a tilted or transverse magnetic dipole for downhole

logging

DATE-ISSUED: December 28, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Frey; Mark T. Sugar Land TX Omeragic; Dzevat Sugar Land TX Tabanou; Jacques R. Houston TX

US-CL-CURRENT: 340/854.6; 324/338, 324/339

Epull Title Citation Front Review Classification Date Reference Claims KMC Draw. Desc Image

15. Document ID: US 6577244 B1

L6: Entry 15 of 25 File: USPT Jun 10, 2003

US-PAT-NO: 6577244

DOCUMENT-IDENTIFIER: US 6577244 B1

TITLE: Method and apparatus for downhole signal communication and measurement through a metal

tubular

DATE-ISSUED: June 10, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Clark; Brian Sugar Land TXHunka; John Sugar Land ΤX Frey; Mark T. Sugar Land TXSmith; David L. Stafford TX Ramaswamy; Dhananjay Stafford TX Collins; Anthony Houston TXBonner; Stephen Sugar Land TX

US-CL-CURRENT: 340/854.6; 324/339, 324/369, 340/853.2, 340/854.4

Full Title Citation Front Review Classification Date Reference Claims KWC Draw Desc Image

16. Document ID: US 6318480 B1

L6: Entry 16 of 25

File: USPT

Nov 20, 2001

COUNTRY

US-PAT-NO: 6318480

DOCUMENT-IDENTIFIER: US 6318480 B1

TITLE: Drilling of laterals from a wellbore

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE

Hearn; David D. Anchorage AK

US-CL-CURRENT: <u>175/61</u>; <u>175/73</u>



17. Document ID: US 6041872 A

L6: Entry 17 of 25 File: USPT Mar 28, 2000

US-PAT-NO: 6041872

DOCUMENT-IDENTIFIER: US 6041872 A

TITLE: Disposable telemetry cable deployment system

DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Holcomb; David Joseph Sandia Park NM

US-CL-CURRENT: 175/40; 340/854.7, 340/854.9

Full Title Citation Front Review Classification Date Reference Claims KMC Draws Desc Image

18. Document ID: US 5507353 A

L6: Entry 18 of 25 File: USPT Apr 16, 1996

US-PAT-NO: 5507353

DOCUMENT-IDENTIFIER: US 5507353 A

TITLE: Method and system for controlling the rotary speed stability of a drill bit

DATE-ISSUED: April 16, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Pavone; Didier Eaubonne FR

US-CL-CURRENT: <u>175/27</u>; <u>175/26</u>, <u>175/40</u>

Full Title Citation Front Review Classification Date Reference

19. Document ID: US 5355968 A

L6: Entry 19 of 25 File: USPT Oct 18, 1994

US-PAT-NO: 5355968

DOCUMENT-IDENTIFIER: US 5355968 A

\*\* See image for Certificate of Correction \*\*

TITLE: Tool joint stress relief groove

DATE-ISSUED: October 18, 1994

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Smith; Jackie E. Houston · TX

US-CL-CURRENT: <u>175/320</u>; <u>285/114</u>

Full Title Citation Front Review Classification Date Reference

20. Document ID: US 5337839 A

L6: Entry 20 of 25 File: USPT Aug 16, 1994

US-PAT-NO: 5337839

DOCUMENT-IDENTIFIER: US 5337839 A

\*\* See image for <u>Certificate of Correction</u> \*\*

TITLE: Extending the lateral portion of a short-radius wellbore

DATE-ISSUED: August 16, 1994

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Warren; Tommy M. Coweta OK Winters; Warren J. Tulsa OK

US-CL-CURRENT: <u>175/62</u>; <u>175/73</u>

Full Title Citation Front Review Classification Date Reference